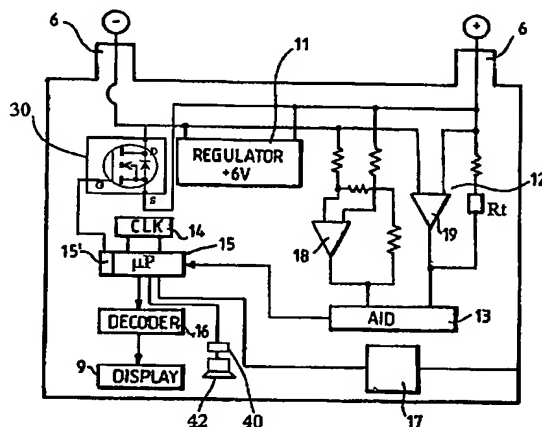




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(57) Abstract: There is disclosed a storage battery which is capable of self-monitoring by detecting and indicating the actual capacity and the expected remaining life-span of the battery, the condition of its charging system and the discharge level. The battery is provided with an integrally assembled detection and indicating means which measure the actual potential across its terminal (indicative of the state of charge of the battery) and the internal resistance of the battery (indicative of its health). The expected remaining life-span of the battery is derived from the calculation of current from these measurements. The battery is assembled to include a casing (2), a cover (3) and a capacity detection and indicating means. The detection and indicating means consist of an electronic circuit that measures the electromotive force and the internal resistance of the battery and indicate the same on a display means (9). The display means is adapted to exhibit whether the battery is in good working condition or otherwise during engine off or whether the charging system of the vehicle is in good working condition during engine in operation. Further, it could also monitor potential leakage presence in its electrical system.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.